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Subject:
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies Monthly Progress Report
Area 1 – Morrow Dam to Plainwell Dam
Area 2 – Plainwell Dam to Otsego City Dam (Otsego City Impoundment)
June 2010

SEDIMENTS

Dear Jim:

Date:
July 15, 2010

Attached is the 40th monthly progress report for the Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site Supplemental Remedial Investigation/ Feasibility Study (SRI/FS). This progress report is submitted as per Paragraph 37 of the February 2007 Administrative Settlement Agreement and Order on Consent (AOC) for Remedial Investigations/Feasibility Studies (Docket No. V-W-07-C-864), as well as Section 7.1 of the associated Statement of Work (SOW). If you have any questions, please do not hesitate to contact me.

Contact:
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Sincerely,

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ARCADIS U.S., Inc.

Michael J. Erickson, P.E.
Vice President

Our ref:
B0064539.0001.00014
#2

DEP/plf
Attachment

Copies:
Michael Berkoff, USEPA
Sam Chummar, USEPA
Sam Borries, USEPA
Paul Bucholtz, MDNRE (with Attachment A)
Jeff Keiser, CH2M HILL (with Attachment A)
Todd Goeks, NOAA (with Attachment A)
Richard Gay, Weyerhaeuser Company
Martin Lebo, Ph.D., Weyerhaeuser Company
Kathy Huibregtse, RMT Inc. (with Attachment A)
J. Michael Davis, Esq., Georgia-Pacific LLC
Garry Griffith, P.E., Georgia-Pacific LLC
Paul Montney, P.E., Georgia-Pacific LLC

**MONTHLY PROGRESS REPORT FOR THE ALLIED PAPER, INC./PORTAGE CREEK/
KALAMAZOO RIVER SUPERFUND SITE SRI/FS
AREA 1 (MORROW DAM TO PLAINWELL DAM)
AREA 2 (PLAINWELL DAM TO OTSEGO CITY DAM – OTSEGO CITY IMPOUNDMENT)**

REPORT #40, JUNE 2010

**PREPARED BY ARCADIS U.S., INC.
JULY 15, 2010**

ON BEHALF OF GEORGIA-PACIFIC LLC

SUBMITTED TO

**JAMES SARIC, REMEDIAL PROJECT MANAGER
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

**Monthly Progress Report for the Allied Paper, Inc./Portage Creek/
Kalamazoo River Superfund Site SRI/FS – Area 1 and 2**

REPORT #40, JUNE 2010

Significant Developments and Activities during the Period, Including Actions Undertaken Pursuant to the AOC and SOW

- On June 9, ARCADIS participated in a conference call meeting with the United States Environmental Protection Agency (USEPA) Toxicity Reference Value (TRV) work group. ARCADIS forwarded supporting information to the group on June 8.
- On June 10, USEPA and ARCADIS discussed the FIELDS proposal for ecological risk assessment (recommendations on data analysis for exposure point controls) via e-mail.
- On June 17, ARCADIS and USEPA met to discuss various issues.
- On June 24, ARCADIS forwarded to the TRV work group information regarding literature citations that may be considered in egg-based TRV development.
- On June 24, ARCADIS submitted to USEPA the final *Area 1 Work Plan Supplement: Baseline Ecological Risk Assessment Work Plan*.

Data Collected and Field Activities Conducted during the Period

- On June 1, ARCADIS notified USEPA of the upcoming schedule for former Plainwell Impoundment Time Critical Removal Action (TCRA) Area groundwater sampling.
- On June 7, 11, 14, 16, 21, and 23, ARCADIS monitored the groundwater and surface water elevations (twice a week) to confirm groundwater flow towards the river in the former Plainwell Impoundment TCRA Area for the quarterly sampling (Table A). This sampling is discussed in Section 3.4.6 of the Area 1 Supplemental Remedial Investigation/Feasibility Study (SRI/FS) Work Plan.
- On June 14 and 24, ARCADIS forwarded to USEPA the groundwater and surface water elevations from the former Plainwell Impoundment TCRA Area.
- On June 28, ARCADIS notified USEPA of the stand down of groundwater sampling at the former Plainwell Impoundment TCRA Area pending a decision by Michigan Department of Natural Resources and Environment (MDNRE) (with prior USEPA concurrence verbally indicated pending MDNRE agreement) regarding the cessation of sampling.

**Monthly Progress Report for the Allied Paper, Inc./Portage Creek/
Kalamazoo River Superfund Site SRI/FS – Area 1 and 2**

REPORT #40, JUNE 2010

Laboratory Data Received during the Period

- On May 11, ARCADIS requested long-term monitoring data from CDM. On June 7, CDM updated ARCADIS on the status of this request. On June 17, CDM transmitted the available data to ARCADIS (some data were not yet received by MDNRE from the laboratory).
- On June 8, ARCADIS received the results of the quality control split samples from SGS North America Inc. (Sample Delivery Group [SDG] G582-721) (Table B). ARCADIS previously received the results of the quality control split samples from TestAmerica Laboratories, Inc. (TestAmerica) (SDGs 137261 and 137262) in May (Table B).
- Validated data for the laboratory SDGs received in April are included in this monthly report. These data include the remainder of the PCB analytical results for the additional segmented sediment cores from the hot spot assessment (SDG KAL538 and a portion of KAL540) (Table C) and the remainder of the PCB analytical results for the Crown Vantage landfill work (SDG portion of KAL540, KAL542, and KAL543) (Table D). In accordance with Section 2.1 of the SOW, paper and electronic copies of these laboratory data are included as part of the monthly progress reports. Attachment A contains the validation reports for these data packages. The enclosed compact disk also contains the electronic data deliverables for these data.

Problems

- Transect T1, to be surveyed in the former Plainwell Impoundment TCRA Area as part of the bathymetric work performed in May, could not be surveyed on May 19th due to high flow conditions. Flows remained too high (>1,000 cubic feet per second at Comstock) throughout June.
- Staff gage SG-2 in the former Plainwell Impoundment TCRA Area was damaged by a high flow event in the river and was not available for the June 2010 monitoring/sampling event.

Actions Taken to Correct Problems

- Transect T1 will be surveyed when flow conditions allow it to be performed safely.

Developments Anticipated during the Next Two Reporting Periods

- Validated data for the laboratory SDGs received in May will be included in the July monthly report. These data include the PCB results from TestAmerica for the 15 groundwater and two surface water samples collected in the former Plainwell Impoundment TCRA Area in April (SDG KAL544).

**Monthly Progress Report for the Allied Paper, Inc./Portage Creek/
Kalamazoo River Superfund Site SRI/FS – Area 1 and 2**

REPORT #40, JUNE 2010

- On July 2, ARCADIS is scheduled to submit the draft Area 2 (Otsego City Impoundment) SRI/FS Work Plan to USEPA.
- On July 6, USEPA will request that Appendix A of the final *Area 1 Work Plan Supplement: Baseline Ecological Risk Assessment Work Plan* be removed and that mention of the exposure point concentration (EPC) development work group be included.
- On July 16, the former Plainwell Impoundment TCRA Area Transect T1 is scheduled to be surveyed.
- On July 22, a teleconference meeting of the TRV work group is scheduled.
- A meeting with the USEPA Exposure Unit work group is planned to be scheduled in July to discuss the development of exposure units and exposure point concentrations for the *Area 1 Work Plan Supplement: Baseline Ecological Risk Assessment Work Plan*.
- By August 15, ARCADIS is scheduled to submit to USEPA the Semi-Annual Progress Report for the period from February through July 2010. This submittal is discussed in Section 7.2 of the SOW.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #40, June 2010

Table A — Water Elevations — Wells and Staff Gages — Plainwell TCRA Area

Location	Water Level Elevation / Date					
	06.07.10	06.11.10	06.14.10	06.16.10	06.21.10	06.23.10
Staff Gages						
SG-1	707.90	708.30	707.80	707.90	707.40	707.53
SG-2	701.90	-	-	-	-	-
SG-3	-	-	-	-	-	-
SG-4	702.15	702.90	701.90	702.15	701.10	701.42
SG-5	703.40	704.10	703.20	703.40	702.48	702.73
Monitoring Wells						
MW-1	702.20	702.72	702.12	702.30	701.41	701.72
MW-2	702.40	702.91	702.34	702.52	701.60	701.94
MW-3	702.87	703.41	702.76	702.93	702.02	702.33
MW-4	703.33	703.85	703.27	703.34	702.51	702.75
MW-5	703.65	704.18	703.54	703.62	702.81	703.04
MW-6	702.27	702.78	702.22	702.40	701.47	701.80
MW-7	702.61	703.13	702.54	702.73	701.78	702.14
MW-8	703.00	703.56	702.91	703.05	702.16	702.43
MW-9	703.21	703.48	703.39	703.41	702.72	702.89
MW-10	705.10	705.57	705.07	705.32	704.42	704.84
MW-11	705.68	706.14	705.68	705.84	705.06	705.35
MW-12	707.12	707.26	706.92	707.80	706.44	707.71
MW-13	705.96	706.35	705.96	706.26	705.39	705.89
MW-14	706.29	706.70	706.26	706.50	705.69	706.04
MW-15	706.58	706.93	706.59	706.98	706.07	706.60
Groundwater - Surface Water Gradients (ft/ft)						
MW-5 - SG-5	0.25	0.08	0.34	0.22	0.33	0.31
MW-1 - SG-4	0.05	-0.18	0.22	0.15	0.31	0.30

Notes:

Staff gage SG-2 was damaged by a high flow event in the river and was not available for the June 2009 monitoring/sampling event. It was replaced and re-surveyed prior to the September 8, 2009 monitoring event. Staff gage SG-2 was damaged by a high flow event in the river and was not available for the June 2010 monitoring/sampling event.

Staff gage SG-3 was not read because ARCADIS did not have access to the private property (Aggregate Industries) where SG-3 is located.

Positive gradient indicates groundwater flow to river.

Negative surface water gradients were observed during the June 11 monitoring event. One additional week of monitoring was performed to ensure gradient exists in which groundwater is traveling toward the River. Elevation data collected on June 14, 16, 21, and 23 confirmed a positive gradient indicating groundwater flow to river.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
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Table B — Quality Control Split Sediment Sample Test - TestAmerica Laboratories, Inc. & SGS North America Inc.

Sample Location	Original Sample ID	Interval (inches)	TestAmerica Laboratories, Inc.			SGS North America Inc.		
			New Sample IDs	SDG	Date SDG Received from Lab	New Sample IDs	SDG	Date SDG Received from Lab
CVT-B-2	K56656	19 - 25	QC00101A	137261	5/24/2010	QC00101B	G582-721	6/8/2010
CVT-C-2	K56658	0 - 2	QC00102A	137261	5/24/2010	QC00102B	G582-721	6/8/2010
	K56659	2 - 6	QC00103A	137261	5/24/2010	QC00103B	G582-721	6/8/2010
	K56661	12 - 15	QC00104A	137261	5/24/2010	QC00104B	G582-721	6/8/2010
CVT-D-1	K56667	19 - 27	QC00105A	137261	5/24/2010	QC00105B	G582-721	6/8/2010
CVT-D-2	K56672	12 - 19	QC00106A	137261	5/24/2010	QC00106B	G582-721	6/8/2010
CVT-F-1	K56676	12 - 24	QC00107A ¹	137261	5/24/2010	QC00107B	G582-721	6/8/2010
CVT-F-2	K56680	2 - 6	QC00108A	137261	5/24/2010	QC00108B	G582-721	6/8/2010
	K56681	6 - 12	QC00109A	137261	5/24/2010	QC00109B	G582-721	6/8/2010
	K56682	12 - 17	QC00110A	137261	5/24/2010	QC00110B	G582-721	6/8/2010
	K56683	17 - 23	QC00111A	137261	5/24/2010	QC00111B	G582-721	6/8/2010
	K56685	28 - 31	QC00112A	137261	5/24/2010	QC00112B	G582-721	6/8/2010
CVT-G-2	K56686	0 - 2	QC00113A	137261	5/24/2010	QC00113B	G582-721	6/8/2010
	K56688	6 - 9	QC00114A	137261	5/24/2010	QC00114B	G582-721	6/8/2010
CVT-H-1	K56694	2 - 6	QC00115A	137261	5/24/2010	QC00115B	G582-721	6/8/2010
	K56695	6 - 12	QC00116A	137261	5/24/2010	QC00116B	G582-721	6/8/2010
	K56696	12 - 15	QC00117A	137261	5/24/2010	QC00117B	G582-721	6/8/2010
	K56697	15 - 19	QC00118A	137261	5/24/2010	QC00118B	G582-721	6/8/2010
	K56698	19 - 26	QC00119A	137261	5/24/2010	QC00119B	G582-721	6/8/2010
CVT-H-2	K56699	0 - 2	QC00120A	137261	5/24/2010	QC00120B	G582-721	6/8/2010
	K56701	6 - 12	QC00121A	137262	5/24/2010	QC00121B	G582-721	6/8/2010
	K56702	12 - 18	QC00122A ¹	137262	5/24/2010	QC00122B	G582-721	6/8/2010
CVT-08-01	K56707	6 - 11	QC00123A	137262	5/24/2010	QC00123B	G582-721	6/8/2010
	K56708	11 - 15	QC00124A	137262	5/24/2010	QC00124B	G582-721	6/8/2010
	K56709	15 - 21	QC00125A	137262	5/24/2010	QC00125B	G582-721	6/8/2010
CVT-08-03	K56711	2 - 6	QC00126A	137262	5/24/2010	QC00126B	G582-721	6/8/2010
	K56712	6 - 12	QC00127A	137262	5/24/2010	QC00127B	G582-721	6/8/2010
	K56713	12 - 18	QC00128A	137262	5/24/2010	QC00128B	G582-721	6/8/2010
	K56714	18 - 24	QC00129A	137262	5/24/2010	QC00129B	G582-721	6/8/2010
CVT-03-05	K56722	0 - 2	QC00130A ¹	137262	5/24/2010	QC00130B	G582-721	6/8/2010
	K56723	2 - 5	QC00131A	137262	5/24/2010	QC00131B	G582-721	6/8/2010
CVT-04-03	K56735	16 - 19	QC00132A	137262	5/24/2010	QC00132B	G582-721	6/8/2010
CVT-05-03	K56740	16 - 21	QC00133A	137262	5/24/2010	QC00133B	G582-721	6/8/2010
Standards	QC Catalog #	Lot #	New Sample IDs	SDG	Date SDG Received from Lab	New Sample IDs	SDG	Date SDG Received from Lab
Aroclor 1242 Low	490	NA	QC00134A	137262	5/24/2010	QC00134B	G582-721	6/8/2010
Aroclor 1254 Low	492	NA	QC00135A	137262	5/24/2010	QC00135B	G582-721	6/8/2010
Custom 1242/1254	NA	0430-10-01	QC00136A	137262	5/24/2010	QC00136B	G582-721	6/8/2010

Notes:

¹MS/MSD performed on this sample.

NA - Not available.

NR - Not received as of March 31, 2010.

SDG - Sample delivery group.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #40, June 2010

**Table C — Validated PCB Results for Sediment Samples - Hot Spot Assessment — Data Received
by ARCADIS in April 2010**

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56931 0 - 2 03/02/10 KPT19-A	K56932 2 - 6 03/02/10 KPT19-A	K56933 6 - 12 03/02/10 KPT19-A	K56934 12 - 18 03/02/10 KPT19-A	K56935 18 - 22 03/02/10 KPT19-A
PCB Aroclors						
Aroclor-1016	mg/kg	0.061 U	0.058 U	0.13 U	0.12 U	14 U
Aroclor-1221	mg/kg	0.061 U	0.058 U	0.13 U	0.12 U	14 U
Aroclor-1232	mg/kg	0.061 U	0.058 U	0.13 U	0.12 U	14 U
Aroclor-1242	mg/kg	0.16	0.15	0.13 U	0.88	110
Aroclor-1248	mg/kg	0.061 U	0.058 U	0.13 U	0.12 U	14 U
Aroclor-1254	mg/kg	0.080	0.091	0.87	0.12 U	12 J
Aroclor-1260	mg/kg	0.061 U	0.058 U	0.13 J	0.12 U	14 U
Total PCBs	mg/kg	0.24	0.24	1.0 J	0.88	120 J
Miscellaneous						
Percent Solids	%	83	84.2	78	81.8	35.9
TOC						
Total Organic Carbon	mg/kg	2,740 J	1,610 J	1,690 J	1,850	84,800
Grain Size Analysis						
Gravel	%	0.9	1.5	0.3	0.4	0
Coarse Sand	%	1.7	1.7	1.1	1	0.1
Medium Sand	%	41.1	36.9	19.2	31.3	3.8
Fine Sand	%	54.1	58.1	76.1	64.3	34.6
Silt	%	2.3	1.9	2.8	2.4	39.3
Clay	%	0	0	0.5	0.5	22.2
Grain Size Analysis - % passing (particle size, um)						
Sieve, 3 inch	% passing (um)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing (um)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing (um)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing (um)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing (um)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing (um)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)
Sieve, #4	% passing (um)	99.1 (4750)	98.5 (4750)	99.7 (4750)	99.6 (4750)	100 (4750)
Sieve, #10	% passing (um)	97.5 (2000)	96.8 (2000)	98.6 (2000)	98.6 (2000)	99.9 (2000)
Sieve, #20	% passing (um)	88.1 (850)	87.9 (850)	94.7 (850)	91.8 (850)	99.5 (850)
Sieve, #40	% passing (um)	56.4 (425)	60 (425)	79.4 (425)	67.2 (425)	96.2 (425)
Sieve, #60	% passing (um)	15.8 (250)	16.5 (250)	37.3 (250)	26.2 (250)	91.4 (250)
Sieve, #80	% passing (um)	6.7 (180)	5.8 (180)	15.4 (180)	11.6 (180)	81.7 (180)
Sieve, #100	% passing (um)	4.6 (150)	4 (150)	8.9 (150)	7.1 (150)	75.3 (150)
Sieve, #200	% passing (um)	2.3 (75)	1.9 (75)	3.3 (75)	2.9 (75)	61.6 (75)
Hydrometer Reading 1	% passing (um)	1 (38)	0.6 (38)	1.6 (37)	0.5 (38)	38.9 (34)
Hydrometer Reading 2	% passing (um)	1 (24)	0.6 (24)	1.6 (24)	0.5 (24)	35.2 (22)
Hydrometer Reading 3	% passing (um)	0.5 (13.8)	0.6 (13.8)	1.1 (13.7)	0.5 (13.8)	29.6 (12.8)
Hydrometer Reading 4	% passing (um)	0 (9.6)	0 (9.6)	0.5 (9.6)	0.5 (9.4)	25.9 (9.2)
Hydrometer Reading 5	% passing (um)	0 (6.9)	0 (7)	0.5 (6.9)	0.5 (6.9)	22.2 (6.4)
Hydrometer Reading 6	% passing (um)	-0.6 (3.5)	-0.1 (3.5)	0.4 (3.3)	-0.1 (3.3)	14.5 (3.3)
Hydrometer Reading 7	% passing (um)	-0.6 (1.4)	-0.1 (1.4)	-0.1 (1.4)	-0.1 (1.4)	7.1 (1.4)

See Notes on Page 9.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #40, June 2010

**Table C — Validated PCB Results for Sediment Samples - Hot Spot Assessment — Data Received
by ARCADIS in April 2010**

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56936 22 - 24 03/02/10 KPT19-A	K56937 24 - 33 03/02/10 KPT19-A	K56938 0 - 2 03/02/10 KPT19-I	K56939 2 - 6 03/02/10 KPT19-I	K56940 6 - 12 03/02/10 KPT19-I
PCB Aroclors						
Aroclor-1016	mg/kg	1.6 U	0.18 U	0.056 U	0.055 U	0.12 U
Aroclor-1221	mg/kg	1.6 U	0.18 U	0.056 U	0.055 U	0.12 U
Aroclor-1232	mg/kg	1.6 U	0.18 U	0.056 U	0.055 U	0.12 U
Aroclor-1242	mg/kg	16	0.85	0.12	0.23	0.92
Aroclor-1248	mg/kg	1.6 U	0.18 U	0.056 U	0.055 U	0.12 U
Aroclor-1254	mg/kg	12	0.46	0.084	0.22	0.97
Aroclor-1260	mg/kg	1.6 U	0.18 U	0.056 U	0.055 U	0.12 U
Total PCBs	mg/kg	28	1.3	0.20	0.45	1.9
Miscellaneous						
Percent Solids	%	63.1	79.6	89.2	88	84.4
TOC						
Total Organic Carbon	mg/kg	17,700	11,800 J	1,140 J	1,500 J	7,430 J
Grain Size Analysis						
Gravel	%	23.5	14.9	1.5	1.2	0.5
Coarse Sand	%	4.1	5.2	3	6.5	4.5
Medium Sand	%	7.9	9.9	40.2	37.2	44.2
Fine Sand	%	42.1	56.7	54	52.5	48.6
Silt	%	20.4	10.2	2.2	1.3	1.5
Clay	%	2	3	-0.8	1.2	0.7
Grain Size Analysis - % passing (particle size, um)						
Sieve, 3 inch	% passing (um)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing (um)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing (um)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing (um)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing (um)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing (um)	83.2 (9500)	91.7 (9500)	100 (9500)	100 (9500)	100 (9500)
Sieve, #4	% passing (um)	76.5 (4750)	85.1 (4750)	98.5 (4750)	98.8 (4750)	99.5 (4750)
Sieve, #10	% passing (um)	72.3 (2000)	79.8 (2000)	95.5 (2000)	92.2 (2000)	95 (2000)
Sieve, #20	% passing (um)	69.3 (850)	75.9 (850)	84.9 (850)	80.1 (850)	79.1 (850)
Sieve, #40	% passing (um)	64.5 (425)	69.9 (425)	55.3 (425)	55 (425)	50.8 (425)
Sieve, #60	% passing (um)	53.3 (250)	53.6 (250)	14.5 (250)	18.6 (250)	18.9 (250)
Sieve, #80	% passing (um)	37.4 (180)	34.6 (180)	3.7 (180)	6 (180)	7.2 (180)
Sieve, #100	% passing (um)	32 (150)	26.3 (150)	2.3 (150)	3.7 (150)	4.5 (150)
Sieve, #200	% passing (um)	22.4 (75)	13.2 (75)	1.4 (75)	2.5 (75)	2.2 (75)
Hydrometer Reading 1	% passing (um)	10 (37)	6.6 (36)	-0.8 (38)	1.2 (37)	1.3 (37)
Hydrometer Reading 2	% passing (um)	6 (24)	5.4 (23)	-0.8 (24)	1.2 (23)	1.3 (23)
Hydrometer Reading 3	% passing (um)	6 (13.6)	4.2 (13.4)	-0.8 (13.9)	1.2 (13.5)	1.3 (13.5)
Hydrometer Reading 4	% passing (um)	2 (9.7)	3.6 (9.5)	-0.8 (9.7)	1.2 (9.5)	1.3 (9.5)
Hydrometer Reading 5	% passing (um)	2 (7.1)	3 (6.6)	-0.8 (7.1)	1.2 (6.8)	0.7 (6.9)
Hydrometer Reading 6	% passing (um)	0 (3.4)	1.7 (3.4)	-1 (3.5)	0.6 (3.3)	0.6 (3.3)
Hydrometer Reading 7	% passing (um)	-2.3 (1.4)	0.5 (1.4)	-1 (1.5)	0.6 (1.4)	0.6 (1.4)

See Notes on Page 9.

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**Table C — Validated PCB Results for Sediment Samples - Hot Spot Assessment — Data Received
by ARCADIS in April 2010**

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56941 12 - 15 03/02/10 KPT19-I	K56942 15 - 24 03/02/10 KPT19-I	K56943 24 - 26 03/02/10 KPT19-I	K56944 26 - 29 03/02/10 KPT19-I	K56945 29 - 31 03/02/10 KPT19-I
PCB Aroclors						
Aroclor-1016	mg/kg	0.69 U	2.9 U	3.3 U	7.2 U	14 U
Aroclor-1221	mg/kg	0.69 U	2.9 U	3.3 U	7.2 U	14 U
Aroclor-1232	mg/kg	0.69 U	2.9 U	3.3 U	7.2 U	14 U
Aroclor-1242	mg/kg	5.5	32	50	110	120
Aroclor-1248	mg/kg	0.69 U	2.9 U	3.3 U	7.2 U	14 U
Aroclor-1254	mg/kg	5.7	2.4 J	3.3 U	10	9.0 J
Aroclor-1260	mg/kg	0.69 U	2.9 U	3.3 U	7.2 U	14 U
Total PCBs	mg/kg	11	34 J	50	120	130 J
Miscellaneous						
Percent Solids	%	72	33.7	44.9	35.1	35
TOC						
Total Organic Carbon	mg/kg	21,800	88,400	62,900	85,900	76,500
Grain Size Analysis						
Gravel	%	1.7	0	0	0	0
Coarse Sand	%	3.8	0.5	0.3	0.5	0.6
Medium Sand	%	21	1.8	1.1	0.7	2.4
Fine Sand	%	60.3	29.9	34.7	9.9	21.8
Silt	%	10.6	44.6	48	56.4	55.7
Clay	%	2.5	23.2	16	32.6	19.4
Grain Size Analysis - % passing (particle size, um)						
Sieve, 3 inch	% passing (um)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing (um)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing (um)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing (um)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing (um)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing (um)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)
Sieve, #4	% passing (um)	98.3 (4750)	100 (4750)	100 (4750)	100 (4750)	100 (4750)
Sieve, #10	% passing (um)	94.5 (2000)	99.5 (2000)	99.7 (2000)	99.5 (2000)	99.4 (2000)
Sieve, #20	% passing (um)	86.6 (850)	99.1 (850)	99.6 (850)	99.4 (850)	98.6 (850)
Sieve, #40	% passing (um)	73.4 (425)	97.7 (425)	98.6 (425)	98.9 (425)	97 (425)
Sieve, #60	% passing (um)	49.8 (250)	94.9 (250)	95.2 (250)	97.7 (250)	94.1 (250)
Sieve, #80	% passing (um)	28.5 (180)	89 (180)	84.9 (180)	96.2 (180)	90.1 (180)
Sieve, #100	% passing (um)	20.8 (150)	83.6 (150)	76.8 (150)	95 (150)	86.9 (150)
Sieve, #200	% passing (um)	13.1 (75)	67.8 (75)	64 (75)	89 (75)	75.1 (75)
Hydrometer Reading 1	% passing (um)	4.8 (36)	52.2 (31)	29.4 (35)	58.9 (32)	41.3 (35)
Hydrometer Reading 2	% passing (um)	3.7 (23)	38.5 (21)	25.5 (22)	48.8 (21)	37.7 (22)
Hydrometer Reading 3	% passing (um)	3.7 (13.2)	33.9 (12.3)	23.6 (12.9)	42.7 (12.4)	30.4 (13.1)
Hydrometer Reading 4	% passing (um)	3.1 (9.6)	30.8 (8.9)	19.8 (9)	38.7 (8.7)	26.7 (9.2)
Hydrometer Reading 5	% passing (um)	2.5 (6.8)	23.2 (6.2)	16 (6.6)	32.6 (6.4)	19.4 (6.7)
Hydrometer Reading 6	% passing (um)	1.3 (3.3)	15.5 (3.2)	9.9 (3.3)	20.5 (3.3)	11.5 (3.2)
Hydrometer Reading 7	% passing (um)	0.7 (1.4)	9.4 (1.4)	6.1 (1.4)	12.4 (1.4)	7.9 (1.4)

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**Table C — Validated PCB Results for Sediment Samples - Hot Spot Assessment — Data Received
by ARCADIS in April 2010**

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56946 0 - 2 03/02/10 KPT19-J	K56947 2 - 6 03/02/10 KPT19-J	K56948 6 - 12 03/02/10 KPT19-J	K56949 12 - 24 03/02/10 KPT19-J	K56950 24 - 32 03/02/10 KPT19-J
PCB Aroclors						
Aroclor-1016	mg/kg	0.080 U	0.072 U	0.055 U	0.059 U	0.066 UJ
Aroclor-1221	mg/kg	0.080 U	0.072 U	0.055 U	0.059 U	0.066 UJ
Aroclor-1232	mg/kg	0.080 U	0.072 U	0.055 U	0.059 U	0.066 UJ
Aroclor-1242	mg/kg	0.27	0.055 J	0.055 U	0.44	0.90 J
Aroclor-1248	mg/kg	0.080 U	0.072 U	0.12	0.059 U	0.066 UJ
Aroclor-1254	mg/kg	0.12	0.16	0.055 U	0.45	0.66 J
Aroclor-1260	mg/kg	0.080 U	0.072 U	0.055 U	0.059 U	0.066 UJ
Total PCBs	mg/kg	0.39	0.22 J	0.12	0.89	1.6 J
Miscellaneous						
Percent Solids	%	60.9	72.3	89.8	84.6	72.3
TOC						
Total Organic Carbon	mg/kg	13,500 J	9,830 J	557 U	736	5,660
Grain Size Analysis						
Gravel	%	0.6	3.1	0.5	0.9	0.4
Coarse Sand	%	0.2	1.3	1.2	3.6	0.8
Medium Sand	%	2.2	18.7	35	35.9	19.2
Fine Sand	%	80.7	68.2	61.6	58.9	73.4
Silt	%	13.4	7.4	1.6	0.6	4.8
Clay	%	2.9	1.2	0.1	0.1	1.3
Grain Size Analysis - % passing (particle size, um)						
Sieve, 3 inch	% passing (um)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing (um)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing (um)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing (um)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing (um)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing (um)	100 (9500)	97.7 (9500)	100 (9500)	100 (9500)	100 (9500)
Sieve, #4	% passing (um)	99.4 (4750)	96.9 (4750)	99.5 (4750)	99.1 (4750)	99.6 (4750)
Sieve, #10	% passing (um)	99.2 (2000)	95.5 (2000)	98.3 (2000)	95.5 (2000)	98.8 (2000)
Sieve, #20	% passing (um)	98.8 (850)	90.7 (850)	92.2 (850)	84.1 (850)	93.3 (850)
Sieve, #40	% passing (um)	96.9 (425)	76.8 (425)	63.3 (425)	59.6 (425)	79.6 (425)
Sieve, #60	% passing (um)	89.8 (250)	56.9 (250)	16.4 (250)	19.3 (250)	65 (250)
Sieve, #80	% passing (um)	66.9 (180)	32.3 (180)	4.9 (180)	4.7 (180)	38.9 (180)
Sieve, #100	% passing (um)	48.1 (150)	20.8 (150)	3 (150)	2.4 (150)	24.3 (150)
Sieve, #200	% passing (um)	16.3 (75)	8.6 (75)	1.7 (75)	0.7 (75)	6.1 (75)
Hydrometer Reading 1	% passing (um)	5.7 (36)	2.8 (37)	0.7 (37)	1.2 (37)	3 (36)
Hydrometer Reading 2	% passing (um)	4.3 (23)	2.3 (23)	0.7 (23)	1.2 (23)	2.4 (23)
Hydrometer Reading 3	% passing (um)	3.7 (13.3)	2.3 (13.4)	0.7 (13.5)	1.2 (13.5)	1.9 (13.4)
Hydrometer Reading 4	% passing (um)	3.7 (9.1)	1.7 (9.5)	0.2 (9.6)	0.2 (9.6)	1.3 (9.4)
Hydrometer Reading 5	% passing (um)	2.9 (6.7)	1.2 (6.6)	0.1 (7)	0.1 (6.7)	1.3 (6.9)
Hydrometer Reading 6	% passing (um)	1.5 (3.3)	1.2 (3.3)	0.1 (3.4)	0.1 (3.4)	0.7 (3.4)
Hydrometer Reading 7	% passing (um)	0.8 (1.4)	0.6 (1.4)	0.1 (1.4)	0.1 (1.4)	0.1 (1.4)

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**Table C — Validated PCB Results for Sediment Samples - Hot Spot Assessment — Data Received
by ARCADIS in April 2010**

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56951 [K56952] 32 - 38 03/02/10 KPT19-J	K56953 0 - 2 03/02/10 KRT5-H	K56954 2 - 4 03/02/10 KRT5-H	K56955 4 - 6 03/02/10 KRT5-H
PCB Aroclors					
Aroclor-1016	mg/kg	7.3 U [6.2 U]	0.30 U	8.2 U	12 U
Aroclor-1221	mg/kg	7.3 U [6.2 U]	0.30 U	8.2 U	12 U
Aroclor-1232	mg/kg	7.3 U [6.2 U]	0.30 U	8.2 U	12 U
Aroclor-1242	mg/kg	110 [84]	1.5	8.2 U	64
Aroclor-1248	mg/kg	7.3 U [6.2 U]	0.25 J	120	75
Aroclor-1254	mg/kg	7.3 U [6.2 U]	0.32	23	49
Aroclor-1260	mg/kg	7.3 U [6.2 U]	0.30 U	5.2 J	12 U
Total PCBs	mg/kg	110 [84]	2.1 J	150 J	190
Miscellaneous					
Percent Solids	%	35.2 [40.6]	80.5	60.6	42
TOC					
Total Organic Carbon	mg/kg	97,700 [98,700]	2,620 J	38,300	126,000
Grain Size Analysis					
Gravel	%	0 [0]	9	0.9	0
Coarse Sand	%	0 [0]	2.7	2.1	0
Medium Sand	%	3.1 [1.8]	10.7	18.4	15.2
Fine Sand	%	28.4 [32.3]	74.5	59	28.2
Silt	%	47.5 [43.4]	2.3	12	38.8
Clay	%	21 [22.5]	0.9	7.6	17.8
Grain Size Analysis - % passing (particle size, um)					
Sieve, 3 inch	% passing (um)	100 (75000) [100 (75000)]	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing (um)	100 (50000) [100 (50000)]	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing (um)	100 (37500) [100 (37500)]	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing (um)	100 (25000) [100 (25000)]	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing (um)	100 (19000) [100 (19000)]	100 (19000)	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing (um)	100 (9500) [100 (9500)]	95.7 (9500)	100 (9500)	100 (9500)
Sieve, #4	% passing (um)	100 (4750) [100 (4750)]	91 (4750)	99.1 (4750)	100 (4750)
Sieve, #10	% passing (um)	100 (2000) [100 (2000)]	88.3 (2000)	97 (2000)	100 (2000)
Sieve, #20	% passing (um)	99.8 (850) [99.6 (850)]	85.3 (850)	91.8 (850)	96.8 (850)
Sieve, #40	% passing (um)	96.9 (425) [98.2 (425)]	77.6 (425)	78.6 (425)	84.8 (425)
Sieve, #60	% passing (um)	93.5 (250) [95.8 (250)]	34.7 (250)	39 (250)	72.3 (250)
Sieve, #80	% passing (um)	87.5 (180) [90.2 (180)]	9.9 (180)	27.4 (180)	66.8 (180)
Sieve, #100	% passing (um)	83.5 (150) [85.3 (150)]	5.7 (150)	24.9 (150)	64.6 (150)
Sieve, #200	% passing (um)	68.5 (75) [65.8 (75)]	3.2 (75)	19.6 (75)	56.6 (75)
Hydrometer Reading 1	% passing (um)	47.8 (34) [42.9 (34)]	2.3 (37)	13.7 (36)	37.7 (35)
Hydrometer Reading 2	% passing (um)	38.2 (22) [38.8 (22)]	1.8 (24)	13.7 (23)	31.7 (22)
Hydrometer Reading 3	% passing (um)	32.5 (12.8) [32.7 (12.8)]	1.4 (13.6)	10.7 (13.4)	27.7 (13)
Hydrometer Reading 4	% passing (um)	28.7 (9.3) [28.6 (9.3)]	1.4 (9.5)	7.6 (9.4)	21.8 (9.1)
Hydrometer Reading 5	% passing (um)	21 (6.7) [22.5 (6.4)]	0.9 (6.9)	7.6 (6.8)	17.8 (6.7)
Hydrometer Reading 6	% passing (um)	15.3 (3.3) [16.3 (3.3)]	0.5 (3.4)	4.6 (3.5)	9.9 (3.2)
Hydrometer Reading 7	% passing (um)	9.6 (1.4) [10.2 (1.4)]	0.5 (1.4)	3.1 (1.4)	5.9 (1.4)

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**Table C — Validated PCB Results for Sediment Samples - Hot Spot Assessment — Data Received
by ARCADIS in April 2010**

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56956 6 - 11 03/02/10 KRT5-H	K56957 11 - 14 03/02/10 KRT5-H	K56958 0 - 2 03/02/10 KRT5-G	K56959 2 - 6 03/02/10 KRT5-G	K56960 6 - 12 03/02/10 KRT5-G
PCB Aroclors						
Aroclor-1016	mg/kg	13 U	10 U	0.063 U	0.21 U	0.074 U
Aroclor-1221	mg/kg	13 U	10 U	0.063 U	0.21 U	0.074 U
Aroclor-1232	mg/kg	13 U	10 U	0.063 U	1.5	0.074 U
Aroclor-1242	mg/kg	110	110	0.16	0.21 U	0.36
Aroclor-1248	mg/kg	110	10 U	0.063 U	0.21 U	0.074 U
Aroclor-1254	mg/kg	92	71	0.058 J	0.21 U	0.074 U
Aroclor-1260	mg/kg	13 U	10 U	0.063 U	0.21 U	0.074 U
Total PCBs	mg/kg	310	180	0.22 J	1.5	0.36
Miscellaneous						
Percent Solids	%	39.4	47	78.9	70.1	66.7
TOC						
Total Organic Carbon	mg/kg	174,000	155,000	27,500	17,700 J	15,800
Grain Size Analysis						
Gravel	%	0	1	0	0	0
Coarse Sand	%	0	1.8	0	0.4	0
Medium Sand	%	16.2	41.2	1.6	1.3	1.1
Fine Sand	%	27.3	31.1	93.9	86.6	77.1
Silt	%	40.2	16.9	2.4	8.4	17.8
Clay	%	16.3	7.9	2.2	3.3	4
Grain Size Analysis - % passing (particle size, um)						
Sieve, 3 inch	% passing (um)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing (um)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing (um)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing (um)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing (um)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing (um)	100 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)
Sieve, #4	% passing (um)	100 (4750)	99 (4750)	100 (4750)	100 (4750)	100 (4750)
Sieve, #10	% passing (um)	100 (2000)	97.2 (2000)	100 (2000)	99.6 (2000)	100 (2000)
Sieve, #20	% passing (um)	97 (850)	83.9 (850)	99.6 (850)	98.9 (850)	99.6 (850)
Sieve, #40	% passing (um)	83.8 (425)	56 (425)	98.4 (425)	98.3 (425)	98.9 (425)
Sieve, #60	% passing (um)	73.5 (250)	38.7 (250)	81 (250)	86.2 (250)	95.6 (250)
Sieve, #80	% passing (um)	68.3 (180)	32.8 (180)	33.4 (180)	48.6 (180)	80.7 (180)
Sieve, #100	% passing (um)	66.1 (150)	30.9 (150)	17 (150)	32.1 (150)	63.1 (150)
Sieve, #200	% passing (um)	56.4 (75)	24.8 (75)	4.5 (75)	11.7 (75)	21.8 (75)
Hydrometer Reading 1	% passing (um)	32.5 (36)	17.8 (36)	3.6 (37)	7.2 (36)	12 (35)
Hydrometer Reading 2	% passing (um)	30.2 (23)	15.8 (23)	2.9 (24)	5.9 (23)	8.8 (23)
Hydrometer Reading 3	% passing (um)	25.6 (13.2)	11.9 (13.5)	2.9 (13.6)	5.2 (13.3)	7.2 (13.3)
Hydrometer Reading 4	% passing (um)	18.6 (9.1)	9.9 (9.6)	2.2 (9.6)	4.6 (9.5)	5.6 (9.3)
Hydrometer Reading 5	% passing (um)	16.3 (6.7)	7.9 (6.6)	2.2 (7)	3.3 (6.6)	4 (6.9)
Hydrometer Reading 6	% passing (um)	9.3 (3.3)	5.9 (3.3)	2.2 (3.4)	2.6 (3.4)	3.2 (3.4)
Hydrometer Reading 7	% passing (um)	2.3 (1.4)	4 (1.4)	2.1 (1.4)	2 (1.4)	1.6 (1.4)

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**Table C — Validated PCB Results for Sediment Samples - Hot Spot Assessment — Data Received
by ARCADIS in April 2010**

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56961 12 - 16 03/02/10 KRT5-G	K56962 0 - 2 03/02/10 S-IM1-1	K56963 2 - 6 03/02/10 S-IM1-1	K56964 6 - 12 03/02/10 S-IM1-1	K56965 12 - 14 03/02/10 S-IM1-1
PCB Aroclors						
Aroclor-1016	mg/kg	0.073 U	0.057 U	0.13 U	0.071 U	0.060 U
Aroclor-1221	mg/kg	0.073 U	0.057 U	0.13 U	0.071 U	0.060 U
Aroclor-1232	mg/kg	0.076	0.057 U	0.13 U	0.071 U	0.060 U
Aroclor-1242	mg/kg	0.073 U	0.41	1.0	0.25	0.060 U
Aroclor-1248	mg/kg	0.073 U	0.12	0.41	0.084	0.060 U
Aroclor-1254	mg/kg	0.073 U	0.15	0.39	0.091	0.060 U
Aroclor-1260	mg/kg	0.073 U	0.044 J	0.071 J	0.071 U	0.060 U
Total PCBs	mg/kg	0.076	0.72 J	1.9 J	0.43	0.060 U
Miscellaneous						
Percent Solids	%	68.1	84.4	75.9	68.4	80.9
TOC						
Total Organic Carbon	mg/kg	30,400 J	8,330 J	20,200 J	35,700	3,460 J
Grain Size Analysis						
Gravel	%	4.7	0	0	0	0
Coarse Sand	%	0.3	0	0.2	0.4	0
Medium Sand	%	1.5	1.6	1.7	1.8	1.1
Fine Sand	%	61.8	96.1	94.3	86.1	93.8
Silt	%	24.8	1.7	3.2	6	4.4
Clay	%	6.9	0.6	0.6	5.7	0.7
Grain Size Analysis - % passing (particle size, um)						
Sieve, 3 inch	% passing (um)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing (um)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing (um)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing (um)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing (um)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing (um)	96.1 (9500)	100 (9500)	100 (9500)	100 (9500)	100 (9500)
Sieve, #4	% passing (um)	95.3 (4750)	100 (4750)	100 (4750)	100 (4750)	100 (4750)
Sieve, #10	% passing (um)	94.9 (2000)	100 (2000)	99.8 (2000)	99.6 (2000)	100 (2000)
Sieve, #20	% passing (um)	94.4 (850)	99.8 (850)	99.3 (850)	99 (850)	99.8 (850)
Sieve, #40	% passing (um)	93.5 (425)	98.4 (425)	98 (425)	97.8 (425)	98.9 (425)
Sieve, #60	% passing (um)	91.3 (250)	84.5 (250)	87.9 (250)	88.5 (250)	61.3 (250)
Sieve, #80	% passing (um)	81.7 (180)	30.3 (180)	42.5 (180)	58.1 (180)	22.5 (180)
Sieve, #100	% passing (um)	71 (150)	12.6 (150)	22.3 (150)	36.1 (150)	13.3 (150)
Sieve, #200	% passing (um)	31.7 (75)	2.3 (75)	3.8 (75)	11.7 (75)	5 (75)
Hydrometer Reading 1	% passing (um)	17.3 (35)	1.7 (37)	1.7 (37)	10.7 (35)	2 (37)
Hydrometer Reading 2	% passing (um)	14.6 (23)	1.7 (23)	1.7 (23)	10 (22)	2 (23)
Hydrometer Reading 3	% passing (um)	12 (13.2)	1.2 (13.6)	1.1 (13.6)	7.9 (13)	2 (13.5)
Hydrometer Reading 4	% passing (um)	9.3 (9.4)	0.6 (9.6)	1.1 (9.8)	6.4 (9.5)	1.4 (9.4)
Hydrometer Reading 5	% passing (um)	6.9 (6.7)	0.6 (6.9)	0.6 (6.9)	5.7 (6.4)	0.7 (6.8)
Hydrometer Reading 6	% passing (um)	2.7 (3.3)	0 (3.3)	0 (3.4)	3.6 (3.3)	0 (3.4)
Hydrometer Reading 7	% passing (um)	1.3 (1.4)	0 (1.4)	0 (1.4)	2.9 (1.4)	0 (1.4)

See Notes on Page 9.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
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**Table C — Validated PCB Results for Sediment Samples - Hot Spot Assessment — Data Received
by ARCADIS in April 2010**

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56966 14 - 16 03/02/10 S-IM1-1	K56967 16 - 19 03/02/10 S-IM1-1	K56968 19 - 22 03/02/10 S-IM1-1	K56969 0 - 2 03/02/10 S-IM1-2
PCB Aroclors					
Aroclor-1016	mg/kg	0.090 U	0.063 U	0.12 U	0.062 U
Aroclor-1221	mg/kg	0.090 U	0.063 U	0.12 U	0.062 U
Aroclor-1232	mg/kg	0.090 U	0.063 U	0.12 U	0.062 U
Aroclor-1242	mg/kg	0.090 U	0.063 U	0.12 U	0.18
Aroclor-1248	mg/kg	0.090 U	0.063 U	0.12 U	0.25
Aroclor-1254	mg/kg	0.090 U	0.063 U	0.12 U	0.062 U
Aroclor-1260	mg/kg	0.090 U	0.063 U	0.12 U	0.16
Total PCBs	mg/kg	0.090 U	0.063 U	0.12 U	0.59
Miscellaneous					
Percent Solids	%	54.7	76.8	43.4	80.9
TOC					
Total Organic Carbon	mg/kg	49,400 J	3,820	100,000	7,190
Grain Size Analysis					
Gravel	%	0	0	0	6.5
Coarse Sand	%	0	0.1	0.6	3.8
Medium Sand	%	3.7	1.7	5.5	6.6
Fine Sand	%	55.6	91.2	54.6	80.3
Silt	%	22.9	5.1	29	1.7
Clay	%	17.8	2	10.3	1.1
Grain Size Analysis - % passing (particle size, um)					
Sieve, 3 inch	% passing (um)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing (um)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing (um)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing (um)	100 (25000)	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing (um)	100 (19000)	100 (19000)	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing (um)	100 (9500)	100 (9500)	100 (9500)	100 (9500)
Sieve, #4	% passing (um)	100 (4750)	100 (4750)	100 (4750)	93.5 (4750)
Sieve, #10	% passing (um)	100 (2000)	99.9 (2000)	99.4 (2000)	89.7 (2000)
Sieve, #20	% passing (um)	97.6 (850)	99.5 (850)	97.5 (850)	87.4 (850)
Sieve, #40	% passing (um)	96.3 (425)	98.3 (425)	93.9 (425)	83.1 (425)
Sieve, #60	% passing (um)	85.3 (250)	70.4 (250)	85.9 (250)	56.7 (250)
Sieve, #80	% passing (um)	71.8 (180)	29.8 (180)	71 (180)	23.1 (180)
Sieve, #100	% passing (um)	60.5 (150)	17.6 (150)	62.3 (150)	12.2 (150)
Sieve, #200	% passing (um)	40.7 (75)	7.1 (75)	39.3 (75)	2.8 (75)
Hydrometer Reading 1	% passing (um)	36.6 (34)	4.5 (36)	22.7 (36)	2.2 (37)
Hydrometer Reading 2	% passing (um)	31.8 (22)	3.7 (23)	18.6 (23)	2.2 (23)
Hydrometer Reading 3	% passing (um)	27 (12.6)	2.9 (13.3)	14.5 (13.3)	2.2 (13.5)
Hydrometer Reading 4	% passing (um)	20.7 (9)	2 (9.3)	10.3 (9.2)	1.1 (9.6)
Hydrometer Reading 5	% passing (um)	17.8 (6.5)	2 (6.8)	10.3 (6.7)	1.1 (6.6)
Hydrometer Reading 6	% passing (um)	11.1 (3.4)	1.2 (3.2)	4.1 (3.3)	0.6 (3.3)
Hydrometer Reading 7	% passing (um)	8 (1.4)	0.8 (1.4)	2.1 (1.4)	0.6 (1.4)

See Notes on Page 9.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
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Table C — Validated PCB Results for Sediment Samples - Hot Spot Assessment — Data Received
by ARCADIS in April 2010

Notes:

J - The compound was positively identified; however, the associated numerical value is an estimated concentration only.

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

UJ - The compound was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.

mg/kg - milligram per kilogram.

um - micrometer.

Samples analyzed by TestAmerica Laboratories, Inc.

Duplicate results in brackets.

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**Table D — Validated PCB Results for Sediment Samples - Crown Vantage Landfill — Data Received
by ARCADIS in April 2010**

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56984 24 - 29 03/02/10 CVT-I-2	K56991 0 - 2 03/02/10 CVT-F-3	K56992 2 - 6 03/02/10 CVT-F-3	K56993 6 - 13 03/02/10 CVT-F-3	K56994 0 - 2 03/02/10 CVT-E-3
PCB Aroclors						
Aroclor-1016	mg/kg	0.070 U	0.86 U	0.65 U	0.54 U	0.42 U
Aroclor-1221	mg/kg	0.070 U	0.86 U	0.65 U	0.54 U	0.42 U
Aroclor-1232	mg/kg	0.070 U	0.86 U	0.65 U	0.54 U	0.42 U
Aroclor-1242	mg/kg	0.070 U	5.5	3.2	6.6	3.4
Aroclor-1248	mg/kg	0.070 U	0.86 U	2.5	0.56	0.42 U
Aroclor-1254	mg/kg	0.070 U	1.6	4.7	2.6	0.66
Aroclor-1260	mg/kg	0.070 U	0.86 U	0.51 J	0.30 J	0.42 U
Total PCBs	mg/kg	0.070 U	7.1	11 J	10 J	4.1
Miscellaneous						
Percent Solids	%	71.5	29.2	35.9	46.2	43.9
TOC						
Total Organic Carbon	mg/kg	46,900 J	159,000	205,000	223,000	181,000
Grain Size Analysis						
Gravel	%	4	12.7	14	42.5	23.1
Coarse Sand	%	4.2	10.1	9.3	4.3	20.7
Medium Sand	%	20.9	2.3	4.4	3.4	2.5
Fine Sand	%	65.8	25.4	31.5	35.7	18.5
Silt	%	4.4	45.3	36.6	8	34.9
Clay	%	0.6	4.2	4.2	6.1	0.3
Grain Size Analysis - % passing (particle size, um)						
Sieve, 3 inch	% passing (um)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing (um)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing (um)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing (um)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing (um)	100 (19000)	100 (19000)	100 (19000)	88.6 (19000)	100 (19000)
Sieve, 3/8 inch	% passing (um)	97.5 (9500)	94.2 (9500)	93 (9500)	66.1 (9500)	84.1 (9500)
Sieve, #4	% passing (um)	96 (4750)	87.3 (4750)	86 (4750)	57.5 (4750)	76.9 (4750)
Sieve, #10	% passing (um)	91.7 (2000)	77.2 (2000)	76.7 (2000)	53.3 (2000)	56.2 (2000)
Sieve, #20	% passing (um)	87.8 (850)	76.7 (850)	75.1 (850)	52 (850)	55.8 (850)
Sieve, #40	% passing (um)	70.8 (425)	74.9 (425)	72.3 (425)	49.9 (425)	53.7 (425)
Sieve, #60	% passing (um)	37.8 (250)	70.3 (250)	64.6 (250)	42.9 (250)	49.6 (250)
Sieve, #80	% passing (um)	23.3 (180)	65.1 (180)	57.1 (180)	34.8 (180)	46 (180)
Sieve, #100	% passing (um)	17.3 (150)	62.8 (150)	54 (150)	30 (150)	44.4 (150)
Sieve, #200	% passing (um)	5 (75)	49.5 (75)	40.8 (75)	14.1 (75)	35.3 (75)
Hydrometer Reading 1	% passing (um)	2.3 (37)	18.7 (37)	17.6 (36)	11.6 (34)	8.3 (37)
Hydrometer Reading 2	% passing (um)	1.7 (23)	15.1 (23)	11.9 (23)	10.1 (22)	6.3 (23)
Hydrometer Reading 3	% passing (um)	0.6 (13.6)	11.5 (13.5)	11.9 (13.3)	8.1 (12.7)	2.3 (13.6)
Hydrometer Reading 4	% passing (um)	0.6 (9.6)	7.9 (9.6)	8 (9.5)	7.1 (9.2)	2.3 (9.8)
Hydrometer Reading 5	% passing (um)	0.6 (7)	4.2 (6.9)	4.2 (6.9)	6.1 (6.6)	0.3 (6.7)
Hydrometer Reading 6	% passing (um)	0 (3.4)	0 (3.3)	1.9 (3.3)	4.1 (3.2)	0 (3.4)
Hydrometer Reading 7	% passing (um)	-0.6 (1.4)	0 (1.4)	0 (1.4)	2.5 (1.4)	0 (1.4)

See Notes on Page 8.

Georgia-Pacific LLC
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Supplemental Remedial Investigations/Feasibility Studies
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**Table D — Validated PCB Results for Sediment Samples - Crown Vantage Landfill — Data Received
by ARCADIS in April 2010**

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56995 2 - 6 03/02/10 CVT-E-3	K56996 6 - 12 03/02/10 CVT-E-3	K56997 [K56999] 12 - 24 03/02/10 CVT-E-3	K56998 24 - 32 03/02/10 CVT-E-3
PCB Aroclors					
Aroclor-1016	mg/kg	0.72 U	4.7 U	0.21 U [0.21 U]	0.050 U
Aroclor-1221	mg/kg	0.72 U	4.7 U	0.21 U [0.21 U]	0.050 U
Aroclor-1232	mg/kg	0.72 U	4.7 U	2.1 [2.2]	0.050 U
Aroclor-1242	mg/kg	5.4	75	0.21 U [0.21 U]	0.050 U
Aroclor-1248	mg/kg	0.72 U	4.7 U	0.21 U [0.21 U]	0.050 U
Aroclor-1254	mg/kg	2.4	4.7 U	0.38 [0.34]	0.050 U
Aroclor-1260	mg/kg	0.36 J	4.7 U	0.21 U [0.21 U]	0.050 U
Total PCBs	mg/kg	8.2 J	75	2.5 [2.5]	0.050 U
Miscellaneous					
Percent Solids	%	63.6	51.2	45.8 [46.2]	93.2
TOC					
Total Organic Carbon	mg/kg	67,500	125,000	204,000 [201,000 J]	4,720 J
Grain Size Analysis					
Gravel	%	14.2	3.7	1.4 [1.1]	11.8
Coarse Sand	%	12.7	5.5	1.1 [1.3]	17.1
Medium Sand	%	17	7.4	3.7 [4.2]	42.3
Fine Sand	%	37.3	28.8	67.6 [67.6]	23.7
Silt	%	16.8	35.6	21.1 [22.3]	5
Clay	%	2	19	5.2 [3.4]	0
Grain Size Analysis - % passing (particle size, um)					
Sieve, 3 inch	% passing (um)	100 (75000)	100 (75000)	100 (75000) [100 (75000)]	100 (75000)
Sieve, 2 inch	% passing (um)	100 (50000)	100 (50000)	100 (50000) [100 (50000)]	100 (50000)
Sieve, 1.5 inch	% passing (um)	100 (37500)	100 (37500)	100 (37500) [100 (37500)]	100 (37500)
Sieve, 1 inch	% passing (um)	100 (25000)	100 (25000)	100 (25000) [100 (25000)]	100 (25000)
Sieve, 3/4 inch	% passing (um)	100 (19000)	100 (19000)	100 (19000) [100 (19000)]	100 (19000)
Sieve, 3/8 inch	% passing (um)	94.2 (9500)	100 (9500)	99.3 (9500) [99.3 (9500)]	96.9 (9500)
Sieve, #4	% passing (um)	85.8 (4750)	96.3 (4750)	98.6 (4750) [98.9 (4750)]	88.2 (4750)
Sieve, #10	% passing (um)	73.1 (2000)	90.7 (2000)	97.6 (2000) [97.6 (2000)]	71 (2000)
Sieve, #20	% passing (um)	68.6 (850)	88.5 (850)	96.8 (850) [96.8 (850)]	52.3 (850)
Sieve, #40	% passing (um)	56.2 (425)	83.3 (425)	93.9 (425) [93.4 (425)]	28.7 (425)
Sieve, #60	% passing (um)	39.1 (250)	74.5 (250)	79.4 (250) [77.2 (250)]	10.3 (250)
Sieve, #80	% passing (um)	30.8 (180)	68.1 (180)	62.7 (180) [60.1 (180)]	6.5 (180)
Sieve, #100	% passing (um)	27.4 (150)	65.1 (150)	53.5 (150) [51 (150)]	5.7 (150)
Sieve, #200	% passing (um)	18.9 (75)	54.6 (75)	26.3 (75) [25.7 (75)]	5 (75)
Hydrometer Reading 1	% passing (um)	12.3 (35)	36 (34)	14.5 (35) [11.5 (35)]	0.6 (37)
Hydrometer Reading 2	% passing (um)	7.6 (23)	32.6 (22)	10.3 (22) [8.3 (23)]	0.6 (23)
Hydrometer Reading 3	% passing (um)	3.9 (13.4)	27.5 (12.7)	6.9 (13.2) [5 (13.3)]	0.3 (13.6)
Hydrometer Reading 4	% passing (um)	3 (9.4)	24.1 (8.9)	6.1 (9.2) [4.2 (9.5)]	0 (9.4)
Hydrometer Reading 5	% passing (um)	2 (6.8)	19 (6.6)	5.2 (6.7) [3.4 (6.6)]	0 (6.8)
Hydrometer Reading 6	% passing (um)	1.1 (3.4)	13.9 (3.3)	3.4 (3.2) [1.6 (3.3)]	0 (3.3)
Hydrometer Reading 7	% passing (um)	0 (1.4)	8.8 (1.4)	1.7 (1.4) [1.6 (1.4)]	0 (1.4)

See Notes on Page 8.

Georgia-Pacific LLC
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**Table D — Validated PCB Results for Sediment Samples - Crown Vantage Landfill — Data Received
by ARCADIS in April 2010**

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K57000 0 - 2 03/03/10 CVT-E-2	K57001 2 - 6 03/03/10 CVT-E-2	K57002 6 - 12 03/03/10 CVT-E-2	K57003 [K57006] 12 - 24 03/03/10 CVT-E-2
PCB Aroclors					
Aroclor-1016	mg/kg	0.21 U	0.15 U	0.53 U	0.53 U [0.54 U]
Aroclor-1221	mg/kg	0.21 U	0.15 U	0.53 U	0.53 U [0.54 U]
Aroclor-1232	mg/kg	0.21 U	0.15 U	0.53 U	0.53 U [0.54 U]
Aroclor-1242	mg/kg	2.3	2.1	4.8	6.8 [7.4]
Aroclor-1248	mg/kg	0.21 U	0.15 U	0.53 U	0.53 U [0.54 U]
Aroclor-1254	mg/kg	0.23	0.21	0.53 U	1.5 [0.54 U]
Aroclor-1260	mg/kg	0.31	0.15 U	0.53 U	0.53 U [0.39 J]
Total PCBs	mg/kg	2.8	2.3	4.8	8.3 [7.8 J]
Miscellaneous					
Percent Solids	%	71.7	92.6	93	86.8 [86.8]
TOC					
Total Organic Carbon	mg/kg	160,000 J	13,500 J	17,400	34,500 J [10,900 J]
Grain Size Analysis					
Gravel	%	4.2	0.4	1.1	1.6 [2.7]
Coarse Sand	%	7.3	15.4	10.3	5.8 [7]
Medium Sand	%	45.1	67.9	65.7	70 [67.3]
Fine Sand	%	31	13.4	20.8	18.6 [18.4]
Silt	%	10	2.1	1.4	2.5 [3.8]
Clay	%	2.4	0.8	0.7	1.5 [0.8]
Grain Size Analysis - % passing (particle size, um)					
Sieve, 3 inch	% passing (um)	100 (75000)	100 (75000)	100 (75000)	100 (75000) [100 (75000)]
Sieve, 2 inch	% passing (um)	100 (50000)	100 (50000)	100 (50000)	100 (50000) [100 (50000)]
Sieve, 1.5 inch	% passing (um)	100 (37500)	100 (37500)	100 (37500)	100 (37500) [100 (37500)]
Sieve, 1 inch	% passing (um)	100 (25000)	100 (25000)	100 (25000)	100 (25000) [100 (25000)]
Sieve, 3/4 inch	% passing (um)	100 (19000)	100 (19000)	100 (19000)	100 (19000) [100 (19000)]
Sieve, 3/8 inch	% passing (um)	96.8 (9500)	100 (9500)	100 (9500)	100 (9500) [100 (9500)]
Sieve, #4	% passing (um)	95.8 (4750)	99.6 (4750)	98.9 (4750)	98.4 (4750) [97.3 (4750)]
Sieve, #10	% passing (um)	88.5 (2000)	84.1 (2000)	88.7 (2000)	92.6 (2000) [90.3 (2000)]
Sieve, #20	% passing (um)	62 (850)	45 (850)	57.2 (850)	59 (850) [58.2 (850)]
Sieve, #40	% passing (um)	43.4 (425)	16.2 (425)	22.9 (425)	22.5 (425) [23 (425)]
Sieve, #60	% passing (um)	34.4 (250)	8.6 (250)	7.8 (250)	10.1 (250) [10.7 (250)]
Sieve, #80	% passing (um)	29.2 (180)	6.8 (180)	4.6 (180)	6.9 (180) [7.6 (180)]
Sieve, #100	% passing (um)	25.5 (150)	5.9 (150)	3.8 (150)	6.1 (150) [6.7 (150)]
Sieve, #200	% passing (um)	12.3 (75)	2.9 (75)	2.2 (75)	3.9 (75) [4.6 (75)]
Hydrometer Reading 1	% passing (um)	6.7 (36)	1.9 (37)	1.4 (37)	3.3 (36) [2.7 (37)]
Hydrometer Reading 2	% passing (um)	4.5 (23)	1.6 (23)	1.4 (23)	2.6 (23) [2.3 (23)]
Hydrometer Reading 3	% passing (um)	3.4 (13.5)	1.6 (13.4)	0.7 (13.6)	2.6 (13.4) [1.9 (13.5)]
Hydrometer Reading 4	% passing (um)	2.4 (9.6)	1.2 (9.5)	0.7 (9.4)	1.9 (9.6) [1.5 (9.8)]
Hydrometer Reading 5	% passing (um)	2.4 (7)	0.8 (6.6)	0.7 (7)	1.5 (6.8) [0.8 (7)]
Hydrometer Reading 6	% passing (um)	0 (3.4)	0.7 (3.4)	0.7 (3.4)	1.1 (3.3) [0.4 (3.4)]
Hydrometer Reading 7	% passing (um)	0 (1.4)	0.7 (1.4)	0.7 (1.4)	0.4 (1.4) [0.1 (1.4)]

See Notes on Page 8.

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**Table D — Validated PCB Results for Sediment Samples - Crown Vantage Landfill — Data Received
by ARCADIS in April 2010**

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K57004 24 - 36 03/03/10 CVT-E-2	K57005 36 - 39 03/03/10 CVT-E-2	K57007 0 - 2 03/03/10 CVT-C-3	K57008 2 - 4 03/03/10 CVT-C-3	K57009 4 - 6 03/03/10 CVT-C-3
PCB Aroclors						
Aroclor-1016	mg/kg	4.5 U	0.59 U	0.12 U	0.85 U	2.7 U
Aroclor-1221	mg/kg	4.5 U	0.59 U	0.12 U	0.85 U	2.7 U
Aroclor-1232	mg/kg	4.5 U	0.59 U	0.93	0.85 U	2.7 U
Aroclor-1242	mg/kg	40	6.7	0.12 U	8.5	30
Aroclor-1248	mg/kg	4.5 U	0.59 U	0.70	3.1	2.7 U
Aroclor-1254	mg/kg	5.1	0.66	0.12 U	0.85 U	5.4
Aroclor-1260	mg/kg	4.5 U	0.59 U	0.092 J	0.85 U	2.7 U
Total PCBs	mg/kg	45	7.4	1.7 J	12	35
Miscellaneous						
Percent Solids	%	53.6	81.3	43.4	53.8	55.1
TOC						
Total Organic Carbon	mg/kg	58,200 J	35,000	236,000 J	247,000 J	114,000 J
Grain Size Analysis						
Gravel	%	2.7	17	6.2	20.3	61.6
Coarse Sand	%	3.3	36.7	4.4	5.8	3.4
Medium Sand	%	19.6	14.5	10.8	12	5.6
Fine Sand	%	41.3	27	39	32.2	17.9
Silt	%	21	4.1	32.3	23.1	8.1
Clay	%	12.1	0.8	7.2	6.7	3.4
Grain Size Analysis - % passing (particle size, um)						
Sieve, 3 inch	% passing (um)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing (um)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing (um)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	45.6 (37500)
Sieve, 1 inch	% passing (um)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	45.6 (25000)
Sieve, 3/4 inch	% passing (um)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	45.6 (19000)
Sieve, 3/8 inch	% passing (um)	99.4 (9500)	97.9 (9500)	97.6 (9500)	89.2 (9500)	41 (9500)
Sieve, #4	% passing (um)	97.3 (4750)	83 (4750)	93.8 (4750)	79.7 (4750)	38.4 (4750)
Sieve, #10	% passing (um)	94 (2000)	46.4 (2000)	89.4 (2000)	73.9 (2000)	35.1 (2000)
Sieve, #20	% passing (um)	83.8 (850)	36.4 (850)	85.9 (850)	68.1 (850)	32.5 (850)
Sieve, #40	% passing (um)	74.4 (425)	31.9 (425)	78.6 (425)	61.9 (425)	29.5 (425)
Sieve, #60	% passing (um)	62.9 (250)	24.4 (250)	66 (250)	51.3 (250)	24 (250)
Sieve, #80	% passing (um)	49.2 (180)	17.4 (180)	56.6 (180)	43.1 (180)	19.5 (180)
Sieve, #100	% passing (um)	44.9 (150)	13.7 (150)	53.1 (150)	40.2 (150)	17.8 (150)
Sieve, #200	% passing (um)	33.1 (75)	4.9 (75)	39.5 (75)	29.8 (75)	11.5 (75)
Hydrometer Reading 1	% passing (um)	21.4 (32)	2.9 (37)	25.3 (36)	16 (36)	9.4 (36)
Hydrometer Reading 2	% passing (um)	18.8 (21)	2.1 (23)	19.9 (23)	13.3 (23)	7.7 (23)
Hydrometer Reading 3	% passing (um)	16.1 (12.2)	1.7 (13.6)	16.2 (13.3)	10.7 (13.3)	6.9 (13.3)
Hydrometer Reading 4	% passing (um)	14.8 (8.7)	1.3 (9.6)	10.8 (9.7)	8 (9.4)	5.1 (9.4)
Hydrometer Reading 5	% passing (um)	12.1 (6.3)	0.8 (7)	7.2 (6.6)	6.7 (6.8)	3.4 (6.8)
Hydrometer Reading 6	% passing (um)	9.4 (3.1)	0.4 (3.3)	3.6 (3.4)	4 (3.4)	2.7 (3.4)
Hydrometer Reading 7	% passing (um)	6.1 (1.3)	0.1 (1.4)	0.3 (1.4)	1.6 (1.4)	1 (1.4)

See Notes on Page 8.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
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**Table D — Validated PCB Results for Sediment Samples - Crown Vantage Landfill — Data Received
by ARCADIS in April 2010**

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K57010 6 - 12 03/03/10 CVT-C-3	K57011 12 - 18 03/03/10 CVT-C-3	K57012 0 - 2 03/03/10 CVT-B-3	K57013 2 - 6 03/03/10 CVT-B-3	K57014 6 - 11 03/03/10 CVT-B-3
PCB Aroclors						
Aroclor-1016	mg/kg	0.12 U	0.14 U	0.15 U	0.65 U	1.9 U
Aroclor-1221	mg/kg	0.12 U	0.14 U	0.15 U	0.65 U	1.9 U
Aroclor-1232	mg/kg	0.12 U	0.14 U	0.15 U	0.65 U	1.9 U
Aroclor-1242	mg/kg	0.64	0.077 J	0.91	2.9	17
Aroclor-1248	mg/kg	0.12 U	0.14 U	0.47	2.1	1.9 U
Aroclor-1254	mg/kg	0.15	0.14 U	0.28	0.69	2.4
Aroclor-1260	mg/kg	0.12 U	0.14 U	0.080 J	0.65 U	1.9 U
Total PCBs	mg/kg	0.79	0.077 J	1.7 J	5.7	19
Miscellaneous						
Percent Solids	%	42.8	33	34.3	38.3	48.5
TOC						
Total Organic Carbon	mg/kg	123,000	216,000	127,000	113,000	90,300
Grain Size Analysis						
Gravel	%	3.3	1.5	11.2	9.6	35.5
Coarse Sand	%	2.6	5.2	4.4	7.4	2.8
Medium Sand	%	10.5	23.6	13.2	19.5	7.1
Fine Sand	%	21.1	20.9	40.5	44.3	28.7
Silt	%	43.7	35.5	30.2	13.2	17.5
Clay	%	18.8	13.2	0.5	5.9	8.4
Grain Size Analysis - % passing (particle size, um)						
Sieve, 3 inch	% passing (um)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing (um)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing (um)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing (um)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing (um)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	76.2 (19000)
Sieve, 3/8 inch	% passing (um)	100 (9500)	100 (9500)	98.1 (9500)	99.1 (9500)	67.3 (9500)
Sieve, #4	% passing (um)	96.7 (4750)	98.5 (4750)	88.8 (4750)	90.4 (4750)	64.5 (4750)
Sieve, #10	% passing (um)	94.1 (2000)	93.2 (2000)	84.4 (2000)	82.9 (2000)	61.7 (2000)
Sieve, #20	% passing (um)	89.5 (850)	79.5 (850)	79.9 (850)	75.3 (850)	59.3 (850)
Sieve, #40	% passing (um)	83.6 (425)	69.6 (425)	71.2 (425)	63.4 (425)	54.6 (425)
Sieve, #60	% passing (um)	74.5 (250)	60.4 (250)	57.7 (250)	46.2 (250)	48.9 (250)
Sieve, #80	% passing (um)	69.1 (180)	55.1 (180)	42.5 (180)	31.1 (180)	40.2 (180)
Sieve, #100	% passing (um)	67.6 (150)	53.8 (150)	39.8 (150)	27.7 (150)	37.6 (150)
Sieve, #200	% passing (um)	62.5 (75)	48.7 (75)	30.7 (75)	19.1 (75)	25.9 (75)
Hydrometer Reading 1	% passing (um)	36.1 (34)	34.7 (35)	11.9 (37)	15.5 (35)	24.8 (33)
Hydrometer Reading 2	% passing (um)	32.9 (22)	25.1 (23)	9 (23)	11.7 (22)	20.7 (22)
Hydrometer Reading 3	% passing (um)	25.1 (12.8)	21.2 (13.2)	6.2 (13.6)	9.8 (13.1)	14.5 (12.8)
Hydrometer Reading 4	% passing (um)	22 (9)	17.4 (9.1)	6.2 (9.6)	7.8 (9.5)	12.5 (9.3)
Hydrometer Reading 5	% passing (um)	18.8 (6.6)	13.2 (6.7)	0.5 (7)	5.9 (6.8)	8.4 (6.4)
Hydrometer Reading 6	% passing (um)	12.5 (3.2)	9.6 (3.3)	0.5 (3.3)	4 (3.3)	5.3 (3.3)
Hydrometer Reading 7	% passing (um)	8.1 (1.4)	4.2 (1.4)	0.5 (1.4)	2.1 (1.4)	3.3 (1.4)

See Notes on Page 8.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
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**Table D — Validated PCB Results for Sediment Samples - Crown Vantage Landfill — Data Received
by ARCADIS in April 2010**

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K57015 0 - 2 03/03/10 CVT-A-1	K57016 2 - 6 03/03/10 CVT-A-1	K57017 6 - 12 03/03/10 CVT-A-1	K57018 12 - 20 03/03/10 CVT-A-1
PCB Aroclors					
Aroclor-1016	mg/kg	0.38 U	0.51 U	7.4 U	5.4 U
Aroclor-1221	mg/kg	0.38 U	0.51 U	7.4 U	5.4 U
Aroclor-1232	mg/kg	0.38 U	0.51 U	7.4 U	5.4 U
Aroclor-1242	mg/kg	2.7	2.1	7.4 U	73
Aroclor-1248	mg/kg	0.38 U	1.6	7.4 U	5.4 U
Aroclor-1254	mg/kg	0.97	0.97	120	16
Aroclor-1260	mg/kg	0.20 J	0.51 U	32	7.5
Total PCBs	mg/kg	3.9 J	4.7	150	97
Miscellaneous					
Percent Solids	%	26.1	28.9	33.2	43.7
TOC					
Total Organic Carbon	mg/kg	186,000	202,000	155,000	92,800 J
Grain Size Analysis					
Gravel	%	0	8.6	4.8	2.5
Coarse Sand	%	2.8	3.4	2	1.4
Medium Sand	%	8.3	7.2	11	11.5
Fine Sand	%	40.1	41.1	50.6	41.2
Silt	%	47.9	34.3	23.8	26.1
Clay	%	0.8	5.3	7.7	17.3
Grain Size Analysis - % passing (particle size, um)					
Sieve, 3 inch	% passing (um)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing (um)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing (um)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing (um)	100 (25000)	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing (um)	100 (19000)	100 (19000)	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing (um)	100 (9500)	97.4 (9500)	100 (9500)	99.3 (9500)
Sieve, #4	% passing (um)	100 (4750)	91.4 (4750)	95.2 (4750)	97.5 (4750)
Sieve, #10	% passing (um)	97.2 (2000)	87.9 (2000)	93.1 (2000)	96.1 (2000)
Sieve, #20	% passing (um)	94.4 (850)	86.2 (850)	90.8 (850)	93 (850)
Sieve, #40	% passing (um)	88.8 (425)	80.7 (425)	82.2 (425)	84.5 (425)
Sieve, #60	% passing (um)	84.5 (250)	76 (250)	72.1 (250)	68.9 (250)
Sieve, #80	% passing (um)	75.8 (180)	66.6 (180)	60.5 (180)	56.1 (180)
Sieve, #100	% passing (um)	72.5 (150)	62.3 (150)	55.1 (150)	53.2 (150)
Sieve, #200	% passing (um)	48.7 (75)	39.6 (75)	31.5 (75)	43.3 (75)
Hydrometer Reading 1	% passing (um)	29.3 (36)	22.3 (36)	27.2 (34)	28.7 (32)
Hydrometer Reading 2	% passing (um)	19.8 (23)	15 (23)	18.2 (22)	26.8 (21)
Hydrometer Reading 3	% passing (um)	10.3 (13.6)	10.1 (13.4)	13.7 (13.1)	23 (12.2)
Hydrometer Reading 4	% passing (um)	10.3 (9.4)	5.3 (9.4)	9.2 (9.3)	19.2 (8.5)
Hydrometer Reading 5	% passing (um)	0.8 (6.8)	5.3 (6.8)	7.7 (6.7)	17.3 (6.3)
Hydrometer Reading 6	% passing (um)	0.8 (3.4)	0.4 (3.5)	4.7 (3.2)	13.5 (3.1)
Hydrometer Reading 7	% passing (um)	-4.7 (1.4)	0 (1.4)	3.2 (1.4)	8.7 (1.4)

See Notes on Page 8.

Georgia-Pacific LLC
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
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**Table D — Validated PCB Results for Sediment Samples - Crown Vantage Landfill — Data Received
by ARCADIS in April 2010**

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K57019 0 - 2 03/03/10 CVT-A-2	K57020 2 - 6 03/03/10 CVT-A-2	K57021 6 - 12 03/03/10 CVT-A-2	K57022 12 - 15 03/03/10 CVT-A-2
PCB Aroclors					
Aroclor-1016	mg/kg	0.33 U	1.1 U	1.8 U	2.7 U
Aroclor-1221	mg/kg	0.33 U	1.1 U	1.8 U	2.7 U
Aroclor-1232	mg/kg	0.33 U	1.1 U	1.8 U	2.7 U
Aroclor-1242	mg/kg	1.5	3.2	20	35
Aroclor-1248	mg/kg	0.84	3.4	1.8 U	2.7 U
Aroclor-1254	mg/kg	0.58	4.9	3.6	2.7 U
Aroclor-1260	mg/kg	0.17 J	1.1 U	1.8 U	2.7 U
Total PCBs	mg/kg	3.1 J	12	24	35
Miscellaneous					
Percent Solids	%	27.6	21.8	27.2	36
TOC					
Total Organic Carbon	mg/kg	197,000	205,000	126,000	131,000
Grain Size Analysis					
Gravel	%	4.8	6.8	2	32.7
Coarse Sand	%	2.5	3.6	2	3.7
Medium Sand	%	4.2	7.3	4	2.9
Fine Sand	%	23.1	40.5	25.6	5.7
Silt	%	55.7	29.4	50	52
Clay	%	9.8	12.3	16.4	2.9
Grain Size Analysis - % passing (particle size, um)					
Sieve, 3 inch	% passing (um)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing (um)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing (um)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing (um)	100 (25000)	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing (um)	100 (19000)	100 (19000)	100 (19000)	84.7 (19000)
Sieve, 3/8 inch	% passing (um)	98 (9500)	96.6 (9500)	100 (9500)	70.3 (9500)
Sieve, #4	% passing (um)	95.2 (4750)	93.2 (4750)	98 (4750)	67.3 (4750)
Sieve, #10	% passing (um)	92.7 (2000)	89.5 (2000)	96 (2000)	63.6 (2000)
Sieve, #20	% passing (um)	91 (850)	87.7 (850)	95.3 (850)	61.9 (850)
Sieve, #40	% passing (um)	88.5 (425)	82.2 (425)	92 (425)	60.6 (425)
Sieve, #60	% passing (um)	85.9 (250)	75.2 (250)	87.9 (250)	60 (250)
Sieve, #80	% passing (um)	80.9 (180)	65.5 (180)	81.4 (180)	58.8 (180)
Sieve, #100	% passing (um)	79.1 (150)	61.1 (150)	79.1 (150)	58.4 (150)
Sieve, #200	% passing (um)	65.4 (75)	41.7 (75)	66.4 (75)	54.9 (75)
Hydrometer Reading 1	% passing (um)	36.8 (36)	40.3 (34)	48.6 (32)	10.3 (37)
Hydrometer Reading 2	% passing (um)	27.8 (23)	26.3 (22)	38.9 (21)	10.3 (23)
Hydrometer Reading 3	% passing (um)	27.8 (13.3)	22.3 (13)	29.3 (12.6)	7.9 (13.5)
Hydrometer Reading 4	% passing (um)	18.8 (9.5)	16.3 (9.3)	22.8 (9.1)	5.4 (9.4)
Hydrometer Reading 5	% passing (um)	9.8 (6.6)	12.3 (6.8)	16.4 (6.4)	2.9 (7)
Hydrometer Reading 6	% passing (um)	5.3 (3.3)	6.3 (3.3)	9.9 (3.3)	0.4 (3.5)
Hydrometer Reading 7	% passing (um)	0.8 (1.4)	4.3 (1.4)	6.7 (1.4)	0.4 (1.4)

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Table D — Validated PCB Results for Sediment Samples - Crown Vantage Landfill — Data Received
by ARCADIS in April 2010

Notes:

J - The compound was positively identified; however, the associated numerical value is an estimated concentration only.

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

mg/kg - milligram per kilogram.

um - micrometer.

Samples analyzed by TestAmerica Laboratories, Inc.

Duplicate results in brackets.